



July 16, 2009  
Project No. 8128.01.20

Mr. Dana Bayuk  
Oregon Department of Environmental Quality  
2020 SW 4<sup>th</sup> Avenue  
Portland, Oregon

Re: Monthly Progress Report – June 2009  
Siltronic Corporation  
7200 NW Front Avenue, Portland, OR  
ECSI #183

Dear Dana:

Maul Foster & Alongi, Inc. (MFA) has prepared this progress report (Report) in accordance with the requirements of the *Order Requiring Remedial Investigation (RI) and Source Control Measures* (the Order), Oregon Department of Environmental Quality (DEQ) No. VC-NWR-03-16, issued to Siltronic Corporation (Siltronic) on February 9, 2004. The reporting period for this Report is June 1, 2009, through June 30, 2009. The next report is due August 10, 2009.

The report organization follows that of the previous progress reports.

## **ACTIONS TAKEN UNDER THE ORDER SINCE THE PREVIOUS PROGRESS REPORT**

### **Communications and Submittals**

On June 16, 2009, Siltronic and its representatives met with DEQ to discuss and develop an alternative approach for monitoring the performance and evaluating the effectiveness of the enhanced *in situ* bioremediation (EIB) remedy. The discussion was summarized by DEQ in a subsequent email dated June 17, 2009.

On June 30, MFA submitted the EIB Performance/Effectiveness Plan (PEP) consistent with the discussion during the June 16<sup>th</sup> meeting.

### **Fieldwork**

EIB injections in the primary source area continued throughout June. The EHC injections were completed in June, and the KB-1 injections were completed on July 14.

The third round of sampling for the Group 3 performance monitoring wells (PMWs) (i.e., downgradient of Fab 1) commenced during the last week of June.

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Monthly water levels were collected on June 9, 2009, as shown on Table 1.<sup>1</sup>

## **ACTIONS TO BE TAKEN IN THE NEXT TWO MONTHS**

Groundwater elevations and DNAPL thickness measurements<sup>2</sup> will be collected in July.

Performance monitoring will continue in July.

Contingent upon DEQ comments regarding the PEP, Siltronic anticipates submitting the Performance Monitoring Plan (PMP) in July or August.

## **TEST RESULTS AND DATA RECEIVED SINCE THE PREVIOUS PROGRESS REPORT**

MFA has received a subset of the third round of samples from Group 3. These data will be included in the PMP, contingent upon receipt schedules.

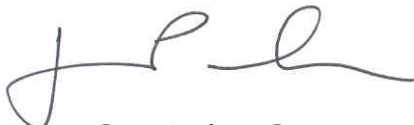
## **PROBLEMS EXPERIENCED SINCE THE PREVIOUS PROGRESS REPORT**

MFA's injection subcontractor reported continuing difficulty during angled injection under the pipe bridge. Utility density in the western PRB has resulted in significantly limited access requiring increased per-interval injection volumes to maintain the approved EHC to soil mass ratio.

Please call either of us at (971) 544-2139 if you have questions or comments.

Sincerely,

Maul Foster & Alongi, Inc.



James G.D. Peale, RG  
Senior Hydrogeologist



Ted Wall, PE  
Principal Engineer

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<sup>1</sup> Table includes monthly water levels from January 2009 through May 2009; water levels from preceding years have previously been submitted.

<sup>2</sup> In an email dated July 1, 2009, DEQ requested that this progress report include all DNAPL measurements collected from the PMWs. Initial DNAPL screening following installation (but before well development) was completed in the Group 1 and 2 wells and suggested the presence of MGP DNAPL in some wells. No additional screening has occurred to date; the MGP DNAPL observations will be included with the DNAPL screening results in the next progress report.

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Attachment: Table 1

cc: Tom McCue, Siltronic Corporation (electronic and hard copy)  
Alan Gladstone, Davis Rothwell Earle and Xochihua (electronic and hard copy)  
Chris Reive, Jordan Schrader Ramis (electronic and hard copy)  
Jim Anderson, DEQ (electronic)  
Kristine Koch, EPA (electronic)  
Sean Sheldrake, EPA Seattle (electronic)  
Rene Fuentes, EPA Seattle (electronic)  
Eric Blischke, EPA Portland (electronic)  
Chip Humphrey, EPA Portland (electronic)

Table 1  
Groundwater Elevations  
January 2009 - June 2009  
Siltronic Corporation  
Portland, Oregon

PERIOD: From 01/02/2009 thru 06/09/2009 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	DELTA WATER ELEV (feet)	WATER ELEV. (feet)
WS-10-27	1/2/2009	33.45	16:29	15.76	NA	17.69
WS-10-27	2/27/2009	33.45	15:27	13.71	2.05	19.74
WS-10-27	4/15/2009	33.45	13:32	12.83	0.88	20.62
WS-10-27	5/15/2009	33.45	15:55	13.14	-0.31	20.31
WS-10-27	6/9/2009	33.45	12:06	13.49	-0.35	19.96
WS-11-125	1/2/2009	31.98	11:16	19.92	NA	12.06
WS-11-125	2/27/2009	31.98	10:11	24.36	-4.44	7.62
WS-11-125	4/15/2009	31.98	8:47	22.67	1.69	9.31
WS-11-125	5/15/2009	31.98	8:59	22.81	-0.14	9.17
WS-11-125	6/9/2009	31.98	9:18	19.42	3.39	12.56
WS-11-161	1/2/2009	32.00	11:15	19.90	NA	12.10
WS-11-161	2/27/2009	32.00	10:10	24.37	-4.47	7.63
WS-11-161	4/15/2009	32.00	8:46	22.65	1.72	9.35
WS-11-161	5/15/2009	32.00	8:56	22.80	-0.15	9.20
WS-11-161	6/9/2009	32.00	9:16	19.41	3.39	12.59
WS-12-125	1/2/2009	32.91	11:05	20.89	NA	12.02
WS-12-125	2/27/2009	32.91	10:01	25.24	-4.35	7.67
WS-12-125	4/15/2009	32.91	8:36	23.61	1.63	9.30
WS-12-125	5/15/2009	32.91	9:08	23.72	-0.11	9.19
WS-12-125	6/9/2009	32.91	9:13	20.40	3.32	12.51
WS-12-161	1/2/2009	32.92	11:03	20.88	NA	12.04
WS-12-161	2/27/2009	32.92	10:00	25.24	-4.36	7.68
WS-12-161	4/15/2009	32.92	8:34	23.60	1.64	9.32
WS-12-161	5/15/2009	32.92	8:50	23.70	-0.10	9.22
WS-12-161	6/9/2009	32.92	9:12	20.31	3.39	12.61
WS-13-105	2/27/2009	33.30	15:52	24.82	NA	8.48
WS-13-105	4/15/2009	33.30	13:07	23.22	1.60	10.08
WS-13-105	5/15/2009	33.30	15:13	23.07	0.15	10.23
WS-13-105	6/9/2009	33.30	11:53	20.05	3.02	13.25
WS-13-69	2/27/2009	33.32	15:53	24.05	NA	9.27
WS-13-69	4/15/2009	33.32	13:09	23.43	0.62	9.89
WS-13-69	5/15/2009	33.32	15:15	22.47	0.96	10.85
WS-13-69	6/9/2009	33.32	11:54	20.08	2.39	13.24
WS-14-125	1/2/2009	32.21	14:30	19.98	NA	12.23
WS-14-125	2/27/2009	32.21	11:43	24.92	-4.94	7.29
WS-14-125	4/15/2009	32.21	10:01	22.73	2.19	9.48
WS-14-125	5/15/2009	32.21	11:34	22.94	-0.21	9.27
WS-14-125	6/9/2009	32.21	10:10	19.68	3.26	12.53
WS-14-161	1/2/2009	32.27	14:28	20.00	NA	12.27
WS-14-161	2/27/2009	32.27	11:41	24.95	-4.95	7.32

MP - Measuring Point  
MSL - Feet above Mean Sea Level (NGVD 29)

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